

What is claimed is:

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1. A luminous device comprises of:
 - A substrate;
 - A plurality of transparent electrodes, in which a plurality of
5 convex transparent electrodes are formed onto the substrate in
ordered arrangement with an appropriate distance between each
other;
 - A conductive layer, which is located on the top layer of the
luminous device and parallel to the substrate;
 - 10 An insulating film layer, in which it forms between the substrate
and a conductive layer, by using the exposing and developing
method to remove a plurality of insulating film on the central
portion of transparent electrodes (but the edge portion of
transparent electrode is still covered by an insulating film), it
15 forms a plurality of insulating film layers between cavity and
insulating convex, the bottom of cavity is a transparent electrode,
and two side of the cavity are the insulating film material;
 - A hole-transport layer, in which it forms onto a hole-injection
layer in an insulating film cavity;
 - 20 A light-emitting layer, in which it forms onto a hole-transport
layer in an insulating film cavity; and
 - An electron-transport layer, in which it forms a light-emitting
layer in an insulating film cavity, through the composition
described above it forms a luminous device.
- 25 2. A luminous device of claim 1 wherein said the substrate can be

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selected from glass or plastic film.

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3. A luminous device of claim 1 wherein said the thickness range of the insulating film layer is 50 ~ 5000 nm for a positive insulating film, and the composition includes phenolic resin, photoactive compound, thermosetting resin, and/or catalyst, solvent, and/or other adhesive promoter.
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4. The composition of an insulating film layer of claim 1 wherein said the insulating convex top face is a smooth convex ball face shape, and its convex angle is an inclining obtuse angle, it becomes a gradient smooth and gradually widening shape from the top face to the bottom face.
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5. A luminous device of claim 1 wherein said the insulating convex shape results from the postbake heated reflow.
6. A luminous device of claim 1 wherein said the material of a plurality of transparent electrodes can be selected from indium-tin-oxide (ITO), indium-zinc-oxide (IZO), etc.
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7. A luminous device of claim 1 wherein said the material of the conductive layer can be selected from Al, Ca, Mg, Li, and its alloy.
8. The composition of an insulating film layer of claim 3 wherein said the thermosetting resin can be selected from melamine formaldehyde resins, benzoguanamine formaldehyde resins, or glycoluril formaldehyde resins.
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9. The composition of an insulating film layer of claim 3 wherein said the catalyst is acidic or potentially acidic, and the acid is

